# FORTRA
## T SERIES



Shown with optional face seal

Ex db | Ex eb | Ex ta | Ex nR

IP66 | IP67 | IP68 | IP 69K

**PATENT PROTECTED**
SEE CMP-PRODUCTS.COM/PATENTS

NEMA 4X | NEMA 6P | DELUGE PROTECTED | +105°C / -60°C

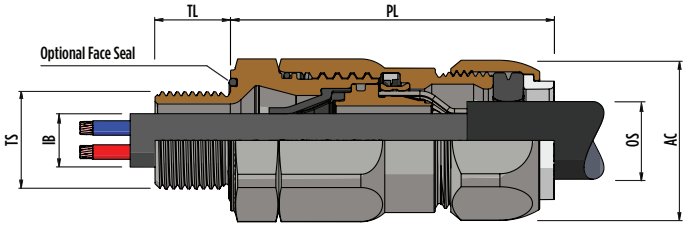
# TFU
## FOR ALL TYPES OF ARMOURED & BRAIDED / SCREENED CABLES

- Unique patented captive 'Adaptive' Cone for all types of armour or braid, with captive 'AnyWay' clamping ring
- Metal-to-metal armour clamping; no installation or inspection ambiguity
- Fewer installation steps for faster process. Unique 'Quick' Thread for faster armour clamping
- Flameproof inner diaphragm seal – safe, reliable & robust; no installation or inspection ambiguity
- Excellent cold flow performance with third party verified test report on cable types used globally
- Outer seal with wider cable acceptance, meaning fewer stocking sizes
- IP66, 67, 68, 69 & 69K as standard with fully enclosed/protected deluge seal for third party compliance to DTS 01:91 & NEMA 4X & 6P
- Compact design; ideal for applications with limited installation space
- Fewer tools required for installation and maintenance

| TECHNICAL DATA | | |
|---|---|---|
| DESIGN SPECIFICATION | | BS 6121-1, IEC 62444, EN 62444 |
| MECHANICAL CLASSIFICATION* | | 16-20S Impact = Category 6, 20-130 Impact = Category 8<br>Wire Armour Anchorage = Type D, Braid Anchorage = Type C |
| ENCLOSURE PROTECTION | | 16-20S IK08 to IEC 62262 (7 Joules)<br>20-130 IK10 to IEC 62262 (20 Joules) |
| ELECTRICAL CLASSIFICATION | | Category B (Category A when used with braid, tape or pliable wire armour cables) |
| INGRESS PROTECTION RATING** | | IP66, IP67, IP68***, IP69, IP69K |
| TYPE RATING** | | NEMA 4X & 6P |
| DELUGE PROTECTION COMPLIANCE | | DTS 01:91 |
| SERVICE TEMPERATURE | | -60 to +105 °C |
| ARMOUR CLAMPING | | Captive 'Adaptive' Armour Cone and Captive 'AnyWay' Clamping Ring |
| SEAL MATERIAL | | LSF Halogen Free Silicone |
| SEALING TECHNIQUE | | CMP Inner Flameproof Diaphragm Seal and Outer Environmental/ Load Retention Seal |
| SEALING AREA(S) | | Cable Inner Bedding and Cable Outer Sheath |
| TYPE MATERIAL OPTIONS | | Brass†, Nickel Plated Brass, Stainless Steel |
| CABLE TYPE(S) | W | Steel / Served Wire Armour (SWA), Aluminium Wire Armour (AWA) |
| | X | Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY/ SY), Wire Braid Armour (e.g. SWB) |

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information
*** IP68 tested to a depth of 30 metres for 7 days, alternative depths / durations can be provided on request
† Not available with NEMA type 4X and 6P

| CERTIFICATIONS | | | |
|---|---|---|---|
| ATEX CERTIFICATE NUMBER | CML 24ATEX1333X, CML 24ATEX4334X | IECEx CERTIFICATE NUMBER | IECEx CML 24.0137X |
| UKEX CERTIFICATE NUMBER | CML 24UKEX1335X, CML 24UKEX4336X | | |
| ATEX & UKEX CODE OF PROTECTION | Ex I M2 Ex db I Mb, Ex eb I Mb; Ex II 2G 3G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc | IECEx CODE OF PROTECTION | Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc |
| ATEX & UKEX COMPLIANCE STANDARDS | EN 60079-0, -1, -7, -15, -31 | IECEx COMPLIANCE STANDARDS | IEC 60079-0, -1, -7, -15, -31 |
| EAC CERTIFICATE NUMBER | EAЭC KZ 7100841.01.01.07859 | | |
| EAC CODE OF PROTECTION | Ex 1Ex db IIC Gb X, Ex 1Ex eb IIC Gb X, Ex 2Ex nR IIC Gc X, Ex Ex ta IIIC Da X | | |
| cCSAus CERTIFICATE | Contact CMP for full details | | |
| UkrSEPRO CERTIFICATE NUMBER | СЦ 25.1094X | | |
| MARINE APPROVALS | LR:LR22320739TA, ABS: 25-0285992-PDA, DNV: TAE000000Y, BV: 43180 | | |
| INMETRO CERTIFICATE NUMBER | TÜV 25.0801X | | |
| INDUSTRIAL CERTIFICATE NUMBER | CML 24CA17921 | | |
| TAIWAN CERTIFICATE NUMBER | ML141200751312 | | |
| CCC CERTIFICATE NUMBER | 2026322313007163 | | |
| PESO CERTIFICATE NUMBER | P640726/1, P640727/1, P640727/5 | | |




| COMBINED ORDERING REFERENCE | | | ENTRY THREAD SIZE 'TS' | ENTRY THREAD PITCH | MINIMUM THREAD LENGTH 'TL' | INNER CABLE BEDDING DIAMETER 'IB' | | OVERALL CABLE DIAMETER 'OS' | | ARMOUR THICKNESS | | | | MAX ACROSS FLATS | MAX ACROSS CORNERS 'AC' | MAX PROTRUSION LENGTH 'PL' | SHROUD SIZE | ASSEMBLY WEIGHT (KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | W CABLE TYPE | | X CABLE TYPE | | | | | | |
| SIZE | TYPE | ORDERING SUFFIX | | | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | | | | | |
| 20S16‡ | TFU | 502 | M20 | 1.5 | 15.0 | 3.1 | 7.0 | 6.1 | 13.2 | 0.8 | 1.25 | 0.3 | 1.0 | 24.0 | 26.4 | 71.5 | 04 | 0.14 |
| 20S‡ | TFU | 502 | M20 | 1.5 | 15.0 | 6.0 | 11.6 | 9.5 | 15.9 | 0.8 | 1.25 | 0.3 | 1.0 | 24.0 | 26.4 | 71.5 | 04 | 0.14 |
| 20 | TFU | 502 | M20 | 1.5 | 15.0 | 8.0 | 14.0 | 12.5 | 20.9 | 0.8 | 1.25 | 0.4 | 1.0 | 30.5 | 33.6 | 70.0 | 06 | 0.22 |
| 25 | TFU | 503 | M25 | 1.5 | 15.0 | 11.0 | 19.5 | 16.0 | 26.2 | 1.25 | 1.6 | 0.4 | 1.2 | 37.5 | 41.3 | 81.5 | 09 | 0.35 |
| 32 | TFU | 504 | M32 | 1.5 | 15.0 | 17.0 | 26.5 | 21.5 | 33.9 | 1.6 | 2.0 | 0.4 | 1.2 | 46.0 | 50.6 | 90.0 | 11 | 0.54 |
| 40 | TFU | 505 | M40 | 1.5 | 15.0 | 22.0 | 32.0 | 28.0 | 40.4 | 1.6 | 2.0 | 0.4 | 1.6 | 55.0 | 60.5 | 93.0 | 15 | 0.76 |
| 50 | TFU | 506 | M50 | 1.5 | 15.0 | 29.5 | 44.0 | 38.0 | 53.2 | 2.0 | 2.5 | 0.6 | 1.6 | 70.0 | 77.0 | 101.5 | 21 | 1.20 |
| 63 | TFU | 507 | M63 | 1.5 | 15.0 | 41.5 | 55.0 | 52.0 | 66.0 | 2.0 | 2.5 | 0.6 | 1.6 | 80.0 | 88.0 | 113.0 | 25 | 1.49 |
| 75 | TFU | 508 | M75 | 1.5 | 15.0 | 53.5 | 68.0 | 64.5 | 78.5 | 2.5 | 3.15 | 0.6 | 1.6 | 100.0 | 110.0 | 112.5 | 30 | 2.61 |
| 90 | TFU | 509 | M90 | 2 | 24.0 | 66.0 | 78.5 | 75.0 | 90.5 | 3.15 | 4.0 | 0.8 | 1.6 | 114.0 | 125.4 | 150.5 | 32 | 4.91 |
| 100 | TFU | 5010 | M100 | 2 | 24.0 | 76.0 | 90.5 | 86.0 | 101.5 | 3.15 | 4.0 | 0.8 | 1.6 | 123.0 | 135.3 | 160.5 | 33 | 5.22 |
| 115 | TFU | 5011 | M115 | 2 | 24.0 | 86.0 | 98.0 | 101.0 | 110.5 | 3.15 | 4.0 | 0.8 | 1.6 | 133.0 | 146.3 | 180.5 | 34 | 7.25 |
| 130 | TFU | 5012 | M130 | 2 | 24.0 | 97.5 | 115.0 | 110.0 | 123.5 | 3.15 | 4.0 | 0.8 | 1.6 | 153.0 | 168.3 | 191.5 | 35 | 9.47 |

Dimensions listed are for cable glands with metric equipment entry threads only. Alternative entry thread types e.g. NPT are available; dimensions may vary.

Part numbers listed are for nickel plated brass cable glands only. Alternative materials are available. ‡ Also available in M16 on request

For material options, please change the 'material suffix', which is the first digit in the 'ordering suffix'. Brass = 0, Stainless Steel = 4 and Nickel Plated Brass = 5.
Examples: 20TFU002 = Brass M20, 40TFU405 = Stainless Steel M40

For NPT thread options, please change the second digit in the 'ordering suffix' to 3 (denotes NPT) and change the final digit to denote the thread size i.e. ½" = 31, ¾" = 32, 1" = 33, 1-1/4" = 34, 1-1/2" = 35, 2" = 36, 2-1/2" = 37, 3" = 38, 3-1-2" = 39, 4" = 310, 5" = 312. Examples: 32TFU533 = Nickel Plated Brass 1" NPT, 50TFU436 = Stainless Steel 2" NPT

Sizes 90-130 are provided with a reversible armour cone. The 'X' side clamps 0.8 – 1.6 mm and the 'W' side clamps 3.15 – 4.0 mm